

## CLAIMS:

1. A circuit arrangement (15) for generating at least one voltage value ( $V_{mult}$ ), which circuit arrangement includes a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged to switch the voltage multiplier to a direct mode in order to control the voltage multiplier during a start time ( $t_s$ ).
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2. A circuit arrangement as claimed in claim 1, characterized in that it is arranged to supply the voltage multiplier with an activation signal (32) formed from a subvoltage ( $V_{dac}$ ) generated by the subvoltage generating unit and from a reference signal ( $V_{ref}$ ), and that it is arranged to supply the voltage multiplier with an initial start signal (36) formed from
- 10 the activation signal (32) during the start time ( $t_s$ ).
3. A circuit arrangement as claimed in claim 1, characterized in that there is provided a start control unit for controlling the voltage multiplier, which start control unit includes at least one comparator (31) and a logic unit (35), the comparator being arranged to
- 15 compare a subvoltage ( $V_{dac}$ ) generated by the subvoltage generating unit and a reference voltage ( $V_{ref}$ ), and to generate the activation signal (32), the logic unit (35) generating an initial start signal (36) so as to switch the voltage multiplier to a direct mode.
4. A circuit arrangement as claimed in claim 1, characterized in that the start time
- 20 ( $t_s$ ) during which the voltage multiplier (20) operates in a direct mode is adaptive adjustable.
5. A circuit arrangement as claimed in claim 1, characterized in that a series connection of switching devices ( $SW_n$ ) of the stages ( $S_n$ ) in the voltage multiplier (20) is closed in the direct mode, and that the capacitances ( $CS_n$ ) associated with the stages can be
- 25 disconnected.
6. A circuit arrangement for driving a display device, which arrangement includes a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged to

control the voltage multiplier (20) by switching the voltage multiplier to a direct mode by means of an initial start signal (36) during a start time (ts).

7. Voltage multiplier (20) for generating at least one voltage value (Vmult),  
5 containing a series connection of the stages (Sn) with switching devices (SWn), switching devices (SCn) and capacitances (CSn), characterized in that during a starttime (ts) the switching devices (SWn) are closed and by that a supply voltage (vdd) at the input of the voltage multiplier is switched to the output of the voltage multiplier.
- 10 8. A display unit (2) for the display of image data, which display unit includes an arrangement (15) for driving the display unit with a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged to switch the voltage multiplier to a direct mode by means of at least one signal (36) during a start time ts.
- 15 9. An electronic apparatus which is provided with a display unit (2) for the display of image data and also with an arrangement (15) for driving the display unit, which arrangement includes a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged that at least one signal (36) controls the voltage multiplier and that the voltage multiplier can be switched to a direct mode during a start time ts.
- 20 10. A method of starting a circuit arrangement (15) which includes a subvoltage generating unit (40) and a voltage multiplier (20), in which method a subvoltage value (Vteil) and a reference voltage (V-ref) are compared so as to generate an activation signal (32), the voltage multiplier (20) being switched to a direct mode during a start time (ts) which is  
25 adaptively adjusted by monitoring an activation signal (32).